

Title (en)

Process for producing polydiorganosiloxane based graft copolymers.

Title (de)

Verfahren zur Herstellung von Pfropfcopolymeren auf Basis von Polydiorganosiloxanen.

Title (fr)

Procédé pour la fabrication de copolymères à base de polydiorganosiloxanes.

Publication

EP 0557038 A1 19930825

Application

EP 93301075 A 19930215

Priority

US 83783892 A 19920218

Abstract (en)

A process for producing a polydiorganosiloxane based graft copolymer is provided. The process involves producing an emulsion of crosslinked polydiorganosiloxane by admixing dihydroxyfunctional polydiorganosiloxane, an emulsifying agent, and water; polymerizing the polydiorganosiloxane in the presence of an acid catalyst, a cross linking agent and a grafting agent to form silicone rubber particles having functional sites, and graft polymerizing a vinyl functional monomer onto the resulting silicone particles. The process provides several advantages in a rubber particle size control thereby resulting in better control of the properties of the resulting graft copolymer.

IPC 1-7

C08F 283/12; **C08J 3/03**; **C08K 5/42**

IPC 8 full level

C08F 299/08 (2006.01); **C08F 290/00** (2006.01); **C08F 290/14** (2006.01); **C08L 83/04** (2006.01); **C08L 83/06** (2006.01)

CPC (source: EP US)

C08F 290/148 (2013.01 - EP US)

Citation (search report)

- [YD] US 4618645 A 19861021 - BAUMAN THERESE M [US], et al
- [YD] EP 0166900 A2 19860108 - MITSUBISHI RAYON CO [JP]

Designated contracting state (EPC)

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US 5629388 A 19970513; CA 2089284 A1 19930819; EP 0557038 A1 19930825; JP H069740 A 19940118

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US 39731695 A 19950302; CA 2089284 A 19930211; EP 93301075 A 19930215; JP 2766593 A 19930217